



AMENDMENTS TO THE CLAIMS:

Please amend claim 10 as indicated below and cancel claim 24 without prejudice or disclaimer. This listing of claims replaces all prior versions and listings of claims in the application.

LISTING OF CLAIMS:

CLAIMS:

- 1.-9. (Cancelled)
10. (Currently Amended) DNA encoding a chimeric isoprenoid sesquiterpene synthase polypeptide, ~~wherein said chimeric isoprenoid sesquiterpene synthase polypeptide that comprises two polypeptide domains: a first isoprenoid sesquiterpene synthase polypeptide domain joined to a second different isoprenoid sesquiterpene synthase polypeptide domain, interrupted by or including a ratio determinant domain, whereby such that the chimeric isoprenoid sesquiterpene synthase polypeptide encoded by the DNA catalyzes the production of at least one isoprenoid sesquiterpene synthase reaction product that is not produced by the first isoprenoid sesquiterpene synthase polypeptide domain alone in the absence of the second isoprenoid synthase polypeptide and another product that is produced in the absence of the second domain~~
11. (Original) A vector, comprising the DNA of claim 10.
12. (Original) A cell, comprising the DNA of claim 10.
13. (Original) The cell of claim 12, wherein said cell is *E. coli*.
14. (Original) The cell of claim 12, wherein said cell is a plant cell.
15. (Previously presented) A transgenic plant, comprising the DNA of claim 10.
16. (Previously presented) A vector, comprising the chimeric isoprenoid synthase gene of claim 10 and a dominant selectable marker.
17. (Previously presented) The vector of claim 16 further comprising additional elements selected from the group consisting of a promoter regulatory region, a transcription initiation start site, a ribosome binding site, an RNA processing signal, a transcription termination site, and a polyadenylation agent.
18. (Previously presented) The vector of claim 11 comprising a transcription initiation regulatory region.
19. (Previously presented) The vector of claim 11 comprising a transcription termination regulatory region.
20. (Previously presented) The DNA of claim 10, wherein the chimeric isoprenoid

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synthase polypeptide encoded by the DNA includes therein a DDXXD motif.

21. (Previously presented) A vector comprising the DNA of claim 20.
- 22.-24. (Cancelled)